

Title (en)

Cooled gas turbine component with adjustable cooling

Title (de)

Gekühlte Gasturbinenkomponente mit verstellbarer Kühlung

Title (fr)

Pièce refroidie de turbine à gaz avec refroidissement ajustable

Publication

EP 1028230 A1 20000816 (DE)

Application

EP 99810106 A 19990209

Priority

EP 99810106 A 19990209

Abstract (en)

The component (11) is surrounded during an operation completely or partially by a hot gas (8), and is provided with at least one cavity (22, 23) in its interior, through which a coolant (9) flows. The cavity is connected with devices for the supply and devices for the disposal of the coolant, forming a flow path for the coolant. At least one throttle point which is adjustable during the operation of the gas turbine is provided in the flow path of the coolant. An Independent claim is provided for a coolant regulation, and a manufacturing method of the corresponding component.

Abstract (de)

In den Kühlluftpfad (35) einer kühlbaren Gasturbinenkomponente (11) wird wenigstens eine verstellbare Drosselstelle (36) eingebracht, und es sind Mittel vorgesehen, die es ermöglichen, diese Drosselstelle während des Betriebes der Maschine zu verändern. Auf diese Weise ist es möglich, die Kühlluftmenge, die der Komponente zugeführt wird, fortlaufend den spezifischen Betriebsbedingungen anzupassen. <IMAGE>

IPC 1-7

F01D 5/18; **F02C 7/12**

IPC 8 full level

F01D 5/18 (2006.01); **F02C 7/12** (2006.01)

CPC (source: EP US)

F01D 5/186 (2013.01 - EP US); **F02C 7/12** (2013.01 - EP US); **F05D 2260/202** (2013.01 - EP US)

Citation (search report)

- [X] US 5022817 A 19910611 - O'HALLORAN BERNARD [US]
- [A] US 4526512 A 19850702 - HOOK RICHARD B [US]

Cited by

EP2492447A1; EP3130763A1; EP2180148A1; CN107120189A; US8726672B2; US6640550B2; WO2013144111A1; US10337343B2; WO2006108454A1; WO2010049195A1; US6644012B2; US7143573B2; US7237386B2; US6523346B1; EP2562369A1; US9752504B2

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